

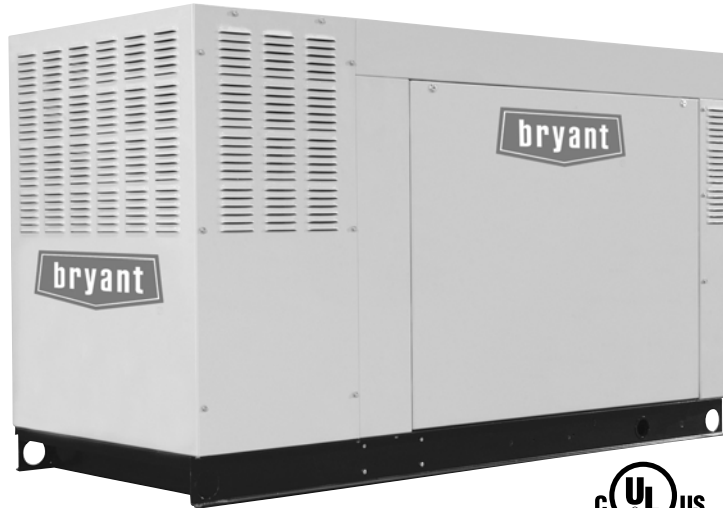
# Standby Power Rating

## 40 kW 60 Hz

**Liquid Cooled  
Gas Engine  
Generator Sets**

**Model Numbers:**

**ASPCS1BBL040 - Steel Enclosure  
ASPCA1BBL040 - Aluminum Enclosure**



**Ultra Quiet Mode**  
For Low Noise Exercise  
- 60.0 dB(A) at 7 meters

**UL 2200 Listed**

**Power Matched**

**3.9GN ENGINE**

**Naturally Aspirated**

**2 Year Limited Parts  
and Labor Warranty**

**Models are equipped with a  
200 amp NEMA 3R Transfer Switch  
with Service Disconnect**

## STANDARD EQUIPMENT

- All input connections in one single area
- High coolant temperature shutdown
- Low oil pressure shutdown
- Low coolant level automatic shutdown
- Overspeed automatic shutdown
- Crank timer
- Exercise timer
- Oil drain extension
- Cool flow radiator
- Closed coolant recovery system
- UV/Ozone resistant hoses
- Watertight state of the art electrical connectors
- Mainline circuit breaker
- Radiator drain extension
- Battery charge alternator
- 2 Amp static battery charger
- Battery cables
- Battery rack
- Fan and belt guards
- Isochronous governor

## FEATURES

- Innovative design and fully prototype tested
- UL2200 Listed
- Solid state frequency compensated voltage regulator
- Dynamic and static battery charger
- Sound attenuated acoustically designed enclosure
- Ultra Quiet Mode for low noise level exercise
- Acoustically designed engine cooling system
- High flow low noise factory engineered exhaust system
- State of the art R100 digital control system
- Watertight electrical connectors
- Rodent proof construction
- High efficiency, low distortion designed alternator
- Vibration isolated from mounting base
- Matching transfer switches engineered and tested to work as a system
- All components easily accessible for maintenance
- Electrostatically applied powder paint



# APPLICATION & ENGINEERING DATA



40 kW

## GENERATOR SPECIFICATIONS

TYPE .....	Synchronous
ROTOR INSULATION .....	Class H
STATOR INSULATION .....	Class H
TOTAL HARMONIC DISTORTION .....	<3.5%
TELEPHONE INTERFERENCE FACTOR (TIF) .....	<50
ALTERNATOR OUTPUT LEADS 3 PHASE .....	4 wire
BEARINGS .....	Sealed Ball
COUPLING .....	Flexible Disc
LOAD CAPACITY (STANDBY RATING) .....	40 kW
EXCITATION SYSTEM .....	Direct

**NOTE:** Generator rating and performance in accordance with ISO8528-5, BS5514, SAE J1349, ISO3046, and DIN6271 standards.

## VOLTAGE REGULATOR

TYPE .....	Electronic
SENSING .....	Single Phase
REGULATION .....	± 1%
FEATURES .....	V/F Adjustable Adjustable Voltage and Gain LED Indicators

## GENERATOR FEATURES

Revolving field heavy duty generator  
Directly connected to the engine  
Operating temperature rise 120 °C above a 40 °C ambient  
Insulation is Class H rated at 150 °C rise  
All models are fully prototyped tested

## CONTROL PANEL FEATURES

- ☐ SEVEN LED INDICATOR LIGHTS
  - System ready
  - Low fuel pressure
  - Low battery
  - Low oil pressure
  - High coolant temp/low coolant temp
  - Overspeed
  - Overcrank
- ☐ ADDITIONAL FUNCTIONS
  - Utility sensing
  - Delay on utility failure for engine start
  - Engine warm-up before transfer
  - Delay to retransfer to utility
  - Engine cooldown timer
  - Exerciser not set
- ☐ INTERNAL FUNCTIONS:
  - 3 position switch (auto, off and manual)
  - 2 wire start for any transfer switch
  - Communicates with the Generac RTS transfer switch
  - Built-in 7 day exerciser
  - Selectable engine speed at exercise
  - Governor controller is built into the master control board
  - Temperature range -40 °C to 70 °C

## ENGINE SPECIFICATIONS

MAKE .....	Generac
MODEL .....	V Type
CYLINDERS .....	6
DISPLACEMENT .....	3.9 Liter
BORE .....	3.91
STROKE .....	3.31
COMPRESSION RATIO .....	9.1:1
INTAKE AIR SYSTEM .....	Naturally Aspirated
VALVE SEATS .....	Precision ground
LIFTER TYPE .....	Overhead Valve Push Rod Hydraulic Lifter

## GOVERNOR SPECIFICATIONS

TYPE .....	Electronic
FREQUENCY REGULATION .....	Isochronous
STEADY STATE REGULATION .....	± .25%

## ENGINE LUBRICATION SYSTEM

OIL PUMP .....	Gear
OIL FILTER .....	Full flow spin-on cartridge
CRANKCASE CAPACITY .....	4 Quarts

## ENGINE COOLING SYSTEM

TYPE .....	Pressurized Closed Recovery
WATER PUMP .....	Belt driven
FAN SPEED .....	2060 rpm
FAN DIAMETER .....	22 inches
FAN MODE .....	Pusher

## FUEL SYSTEM

FUEL TYPE .....	Natural gas, propane vapor
CARBURETOR .....	Down Draft
SECONDARY FUEL REGULATOR .....	Standard
FUEL SHUT OFF SOLENOID .....	Standard
OPERATING FUEL PRESSURE VAPOR SYSTEMS .....	Nat. Gas 5" to 14" H <sub>2</sub> O .....LP Vapor 5" to 14" H <sub>2</sub> O

## ELECTRICAL SYSTEM

BATTERY CHARGE ALTERNATOR .....	12V 30 Amp
STATIC BATTERY CHARGER .....	2 Amp
RECOMMENDED BATTERY .....	Group 24 525CCA
SYSTEM VOLTAGE .....	12 Volts



# STANDBY 40 kW

## OPERATING DATA

	STANDBY 40 kW				
KW RATING - LP/NG	40/37				
ENGINE SIZE	3.9 Liter V-6				
GENERATOR OUTPUT VOLTAGE/KW - 60Hz 120/240V, 1-phase, 1.0 pf	KW LP 40 / NG 37	AMP LP 167 / NG 154.2	CB Size 175		
GENERATOR LOCKED ROTOR KVA AVAILABLE @ VOLTAGE DIP OF 35% Single phase	80				
FUEL – Natural Gas and LP Vapor Only Fuel consumption – 60Hz  N.G.ft. <sup>3</sup> /hr  LP ft <sup>3</sup> /hr.(gal./hr - for reference only)	Exercise Cycle 82 33.1 (.90)	25% Load 148 59.6 (1.62)	50% Load 285 114.8 (3.12)	75% Load 397 160 (4.34)	100% Load 550 221.5 (6.01)
ENGINE COOLING Air flow (inlet air including alternator and combustion air) ft <sup>3</sup> /min. Coolant capacity US gal. Heat rejection to coolant BTU/hr. Max. operating air temp. on radiator °C (°F) Max. ambient temperature °C (°F)	2725 3.0 151,000 60 (150) 50 (140)				
COMBUSTION AIR REQUIREMENTS Flow at rated power 60 Hz cfm	105.4				
SOUND EMISSIONS IN DBA Exercising at 7 meters Full load at 7 meters	60 73				
EXHAUST Exhaust flow at rated output 60 Hz cfm Exhaust temp. at muffler outlet °F	274.3 938				
ENGINE PARAMETERS Rated synchronous RPM 60 Hz HP at rated KW 60 Hz	1800 LP 64.2 / NG 59				
POWER ADJUSTMENT FOR AMBIENT CONDITIONS Temperature Deration 3% for every 10 °C above - °C 1.65% for every 10 °F above - °F Altitude Deration 1% for every 100 m above - m 3% for every 1000 ft. above - ft.	25 77 183 600				
TRANSFER SWITCH SPECIFICATIONS (If so equipped) No. of Poles Current Rating (amps) Voltage Rating (VAC) Service Disconnect Breaker Utility Voltage Monitor (fixed) Pick-up Dropout  Return to Utility Exerciser 15 minutes weekly UL Listed Enclosure - NEMA 3R (Outdoor rated) Dimensions (H" x W" x D") Weight	2 200 250 200 Amp HACR Type 80% 60% 1 minute Standard Standard Standard 23.5 x 13.05 x 7.4 50 lbs.				

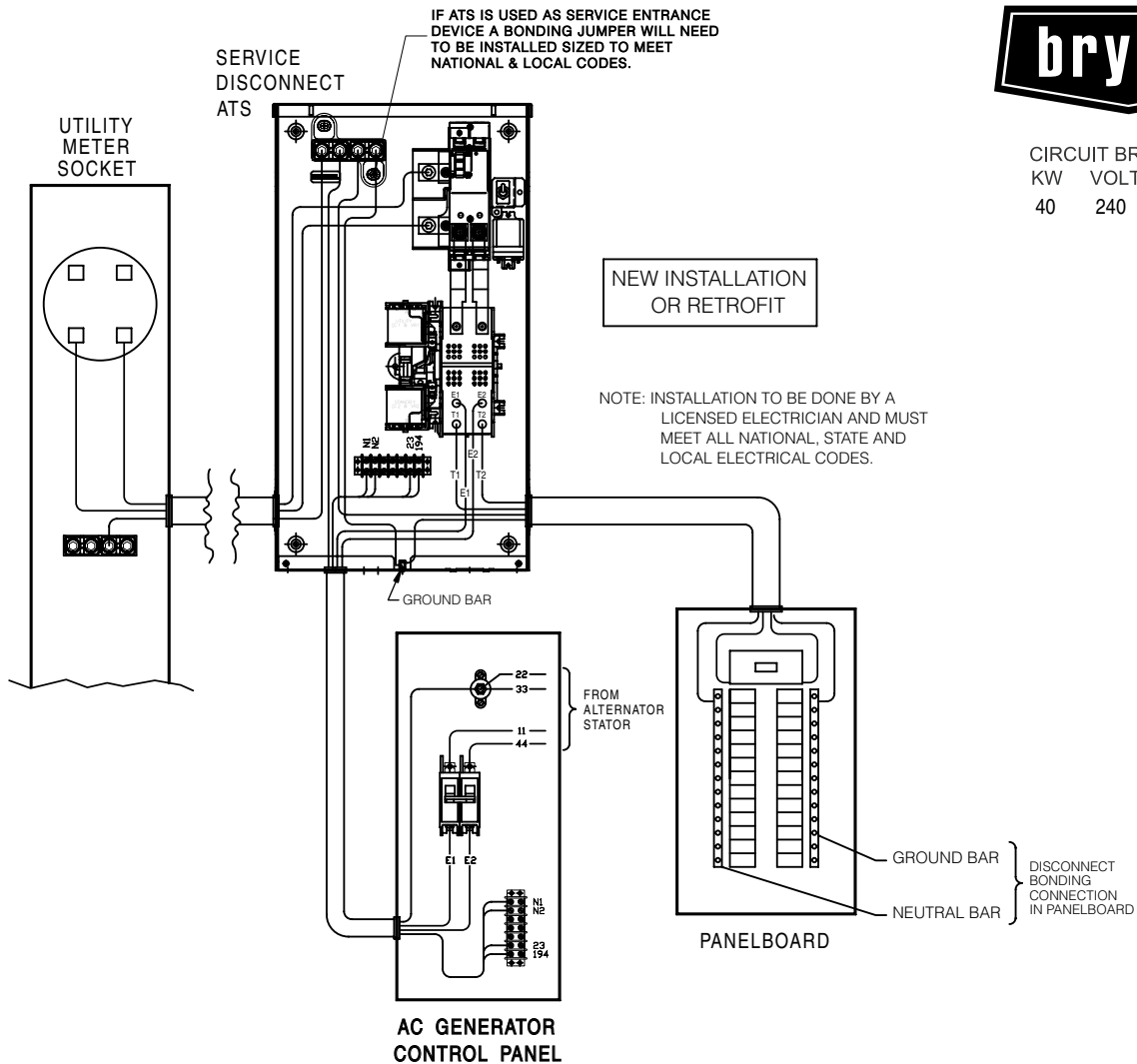
Rating definitions - Standby: Applicable for supplying emergency power for the duration of the utility power outage. No overload capability is available for this rating. (All ratings in accordance with BS5514, ISO3046 and DIN6271). (All ratings in accordance with BS5514, ISO3046, ISO8528 and DIN6271).

# INTERCONNECTIONS

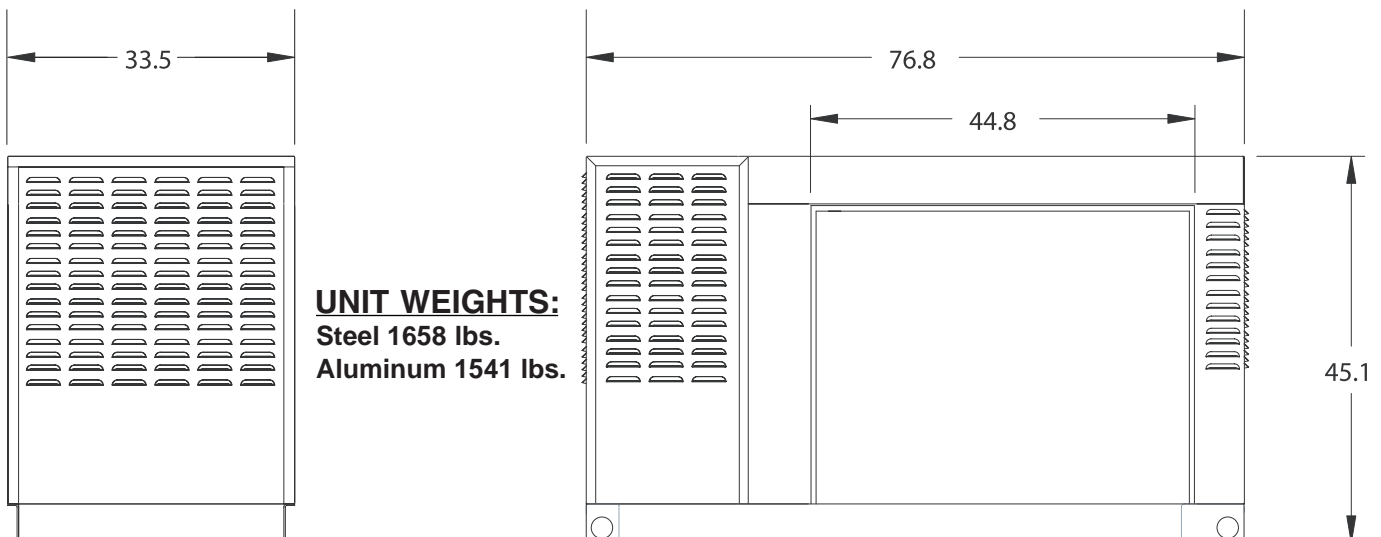
STANDBY 40 kW



CIRCUIT BREAKER SIZE  
KW VOLTS / AMPS  
40 240 1 Ø 175



## INSTALLATION LAYOUT



BRYANT, INC. • 7310 WEST MORRIS STREET • INDIANAPOLIS, IN 46231

WEBSITE: [www.bryant.com](http://www.bryant.com)